

Communication tool for data sharing in neuroscience

brainSTEM

<u>brain</u> <u>Structured</u> <u>Experimental</u> <u>Metadata</u>

OXT group at NYU

What is brainSTEM?

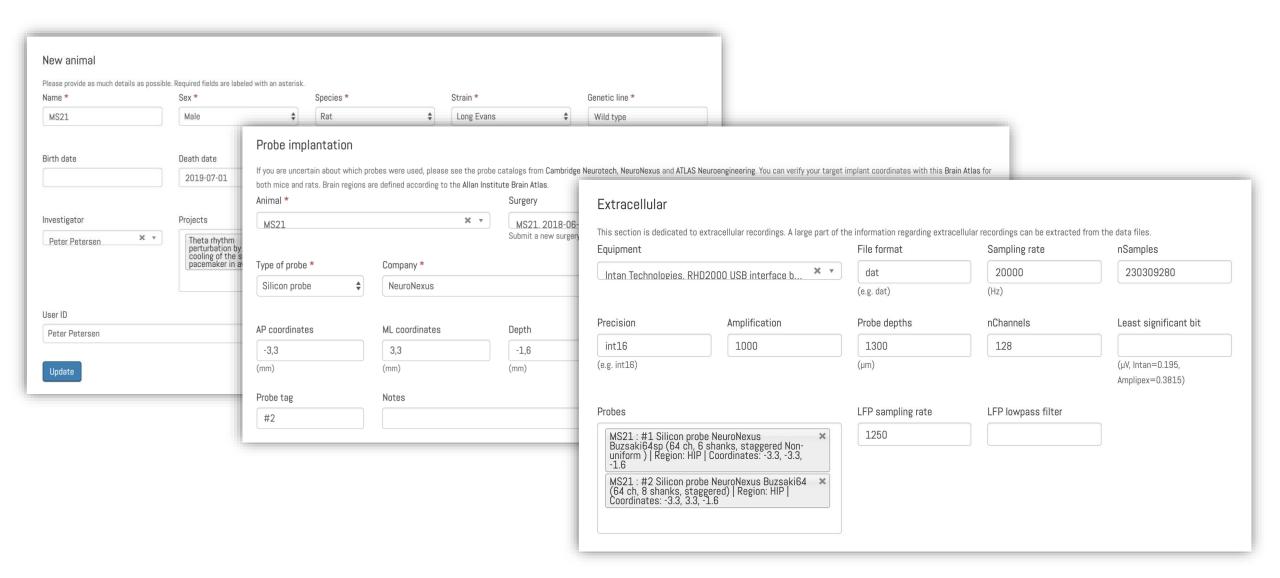
<u>Structured Experimental Metadata</u>

- 1. Structured language for experimental neuroscience
- Centralized and standardized database for metadata
- Granular access control
- Access via web interface and REST API

Many benefits to this model, both within and across laboratories

- 1. Functions as an electronic notebook for lab members to organize experiments and raw data
- 2. User friendly and efficient data handling and organization of experimental data (through the web interface)
- 3. Coordinates analysis tools (e.g. Matlab, Python) with that same notebook (through the REST API)
- 4. Allows for other researcher to discover and interpret the same data: within- and across laboratories, expanding its lifetime

Web interface



Data Categories and Relationships

